

Claims

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3 1. Within a document server, a computer-implemented method for
4 processing a request for a document comprising at least one hypertext markup
5 language (HTML) element, the method comprising:

6 parsing the requested document to generate therefrom a corresponding
7 document object model (DOM) including at least one object;
8 obtaining a transformation instruction directed to a first object of the DOM;
9 transforming the first object in accordance with the transformation
10 instruction; and
11 flattening the DOM to generate therefrom a corresponding transformed
12 document.

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14 2. The method of claim 1, wherein the obtaining step comprises:
15 reading a transformation instruction from a script file corresponding to the
16 requested document.

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18 3. The method of claim 2, further comprising:
19 receiving a request for a document from a client program; and
20 identifying a script file within the document server corresponding to the
21 requested document.

- 1 4. The method of claim 3, wherein the client program comprises a Web
2 browser.
- 3
- 4 5. The method of claim 2, further comprising:
5 receiving a request for a script file from a client program; and
6 identifying a document within the document server corresponding to the
7 requested script file.
- 8
- 9 6. The method of claim 2, wherein the script file is included within a
10 separate portion of the document.
- 11
- 12 7. The method of claim 2, wherein the script file and the document
13 comprise logically separate data files.
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- 15 8. The method of claim 1, further comprising:
16 transmitting the transformed document to a client program.
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- 18 9. The method of claim 1, wherein the transforming step comprises:
19 retrieving a value from a database; and
20 assigning the value to an object of the DOM.
- 21

1 10. The method of claim 1, wherein the transforming step comprises:
2 replacing a first object of the DOM with a different second object.

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4 11. A system for processing a request for a document comprising at least
5 one hypertext markup language (HTML) element, the system comprising:

6 a parsing module configured to parse a requested document to generate
7 therefrom a corresponding document object model (DOM) including
8 at least one object;

9 an instruction obtaining module configured to obtain a transformation
10 instruction directed to a first object of the DOM;

11 an object transformation module configured to transform the first object in
12 accordance with the transformation instruction; and

13 a flattening module configured to flatten the DOM to generate therefrom a
14 corresponding transformed document.

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16 12. The system of claim 11, wherein the instruction module comprises:
17 a script file access module configured to read a transformation instruction
18 from a script file corresponding to the requested document.

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20 13. The system of claim 12, further comprising:
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- 1 a request reception module configured to receive a request for a document
2 from a client program and identify a script file corresponding to the
3 requested document.
- 4
- 5 14. The system of claim 13, wherein the client program comprises a Web
6 browser.
- 7
- 8 15. The system of claim 12, further comprising:
9 a request reception module configured to receive a request for a script file
10 from a client program and identify a document corresponding to the
11 requested script file.
- 12
- 13 16. The system of claim 12, wherein the script file is included within a
14 separate portion of the document.
- 15
- 16 17. The system of claim 12, wherein the script file and the document
17 comprise logically separate data files.
- 18
- 19 18. The system of claim 11, further comprising:
20 a transmission module configured to transmit the transformed document to
21 a client program.

1 19. The system of claim 11, wherein the object transformation module
2 comprises:

3 a database query module configured to retrieve a value from a database;

4 and

5 a value assignment module configured to assign the value to an object of the
6 DOM.

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8 20. The system of claim 11, wherein the object transformation module
9 comprises:

10 an element replacement module configured to replace a first object of the
11 DOM with a different second object.

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13 ~~21.~~ An article of manufacture comprising a program storage medium
14 readable by a processor and embodying one or more instructions executable by the
15 processor to perform a computer-implemented method for processing a request for
16 a document comprising at least one hypertext markup language (HTML) element,
17 the method comprising:

18 parsing the requested document to generate therefrom a corresponding
19 document object model (DOM) including at least one object;

20 obtaining a transformation instruction directed to a first object of the DOM;

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transforming the first object in accordance with the transformation instruction; and

flattening the DOM to generate therefrom a corresponding transformed document.

22. The article of manufacture of claim 21, wherein the obtaining step comprises:

reading a transformation instruction from a script file corresponding to the requested document.

23. The article of manufacture of claim 22, the method further comprising:
receiving a request for a document from a client program; and
identifying a script file corresponding to the requested document.

24. The article of manufacture of claim 23, wherein the client program comprises a Web browser.

25. The article of manufacture of claim 22, the method further comprising:
receiving a request for a script file from a client program; and
identifying a document corresponding to the requested script file.

1 26. The article of manufacture of claim 22, wherein the script file is
2 included within a separate portion of the document.

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4 27. The article of manufacture of claim 22, wherein the script file and the
5 document comprise logically separate data files.

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7 28. The article of manufacture of claim 21, the method further comprising:
8 transmitting the transformed document to a client program.

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10 29. The article of manufacture of claim 21, wherein the transforming step
11 comprises:

12 retrieving a value from a database; and

13 assigning the value to an object of the DOM.

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15 30. The article of manufacture of claim 21, wherein the transforming step
16 comprises:

17 replacing a first object of the DOM with a different second object.

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